

What is claimed is:

1. A system comprising:

a first device connected to a network;

a second device connected to said network; and

at least one portable terminal,

wherein device information of said first device containing connection information for establishing a connection between said first device and said second device is transmitted from said first device to said portable terminal, and later transmitted from said portable terminal to said second device, and therefore the connection between said first device and said second device is established based on the device information.

2. A system as claimed in claim 1, in which data is transmitted between said first device and said second device after said connection is established.

3. A system as claimed in claim 1, in which said device information is transmitted from said first device to said portable terminal via a mobile telecommunication network.

4. A system as claimed in claim 1, in which said device information is transmitted from said first device to said portable terminal via a communication means for communicating in short distances.

5. A system as claimed in claim 4, in which said communication means for communicating in short distances is a wireless communication means.

6. A system as claimed in claim 5, in which said communication means for communicating in short distances is based on either Bluetooth®, IEEE 802.11, HomeRF®, or IrDA®.

7. A system as claimed in claim 4, in which said communication means for communicating in short distances is a wired communication means.

8. A system as claimed in claim 1, in which said device information is transmitted from said portable terminal to said second device by means of a communication means for communicating in short distances.

9. A system as claimed in claim 8, in which said communication means for communicating in short distances is a wireless communication means.

10. A system as claimed in claim 9, in which said communication means for communicating in short distances is based on either Bluetooth®, IEEE 802.11, HomeRF®, or IrDA®.

11. A system as claimed in claim 8, in which said communication means for communicating in short distances is a wired communication means.

12. A system as claimed in claim 1, in which said portable terminal is a mobile telephone.

13. A system as claimed in claim 1, in which said portable terminal is a memory medium.

14. A system as claimed in claim 13, in which said first device comprises an interface for transmitting the device information to said memory medium and said second device comprises an interface for receiving the device information transmitted from said memory medium.

15. A system as claimed in claim 1, in which said at least one portable terminal consists of two portable terminals, one of the portable terminals receives the device information from said first device and transmits it to the other of the portable terminals, and the other of the portable terminals transmits the received device information to said second device.

16. A system as claimed in claim 15, in which said device information is transmitted from said one of the portable terminals to said other portable terminal via a mobile telecommunication network.

17. A system as claimed in claim 1, in which said connection information contains an identification code for identifying said first device on said network.

18. A system as claimed in claim 17, in which said identification code is an IP address.

19. A data transmission device to be used in a system

including said data transmission device and a data receiving device which are connected to a network, and a portable terminal, said data transmission device comprising:

a first transmission means for transmitting to said portable terminal device information containing connection information for establishing a connection between said data transmission device and said data receiving device; and

a connection means for establishing the connection with said data receiving device according to a connection request transmitted from said data receiving device based on the device information.

20. A data transmission device as claimed in claim 19, further comprising a second transmission means for transmitting data to said data receiving device via said network after the connection with said data receiving device is established.

21. A data transmission device as claimed in claim 19, in which said first transmission means comprises a communication means for communicating in short distances for transmitting the device information to said portable terminal.

22. A data transmission device as claimed in claim 21, in which said communication means for communicating in short distances is a wireless communication means.

23. A data transmission device as claimed in claim 22, in which said communication means for communicating in short distances is based on either Bluetooth®, IEEE 802.11, HomeRF®, or IrDA®.

24. A data transmission device as claimed in claim 21, in which said communication means for communicating in short distances is a wired communication means.

25. A data transmission device as claimed in claim 19, in which said portable terminal is a memory medium, and said first transmission means comprises an interface for transmitting the device information to said memory medium.

26. A data transmission device as claimed in claim 19, in which said connection information contains an identification code for identifying said data transmission device on said network.

27. A data transmission device as claimed in claim 26, in which said identification code is an IP address.

28. A data receiving device to be used in a system including a data transmission device and said data receiving device which are connected to a network, and a portable terminal, said data receiving device comprising:

a receiving means for receiving from said portable terminal device information of said data transmission device containing connection information for establishing a

connection between said data transmission device and said data receiving device; and

a transmission means for transmitting a signal for requesting a connection to said data transmission device based on the device information.

29. A data receiving device as claimed in claim 28, in which said receiving means comprises a communication means for communicating in short distances for receiving the device information from said portable terminal.

30. A data receiving device as claimed in claim 29, in which said communication means for communicating in short distances is a wireless communication means.

31. A data receiving device as claimed in claim 30, in which said communication means for communicating in short distances is based on either Bluetooth®, IEEE 802.11, HomeRF®, or IrDA®.

32. A data receiving device as claimed in claim 29, in which said communication means for communicating in short distances is a wired communication means.

33. A data receiving device as claimed in claim 28, in which said portable terminal is a memory medium, and said receiving means comprises an interface for receiving the device information from said memory medium.

34. A data receiving device as claimed in claim 28, in

which said connection information contains an identification code for identifying said data transmission device on said network.

35. A data receiving device as claimed in claim 34, in which said identification code is an IP address.

36. A portable terminal to be used in a system including a data transmission device and a data receiving device which are connected to a network, and said portable terminal, said portable terminal comprising:

a receiving means for receiving device information containing connection information for establishing a connection between said data transmission device and said data receiving device from said data transmission device;

a storage means for storing the device information; and

a transmission means for transmitting the stored device information to said data receiving device.

37. A portable terminal as claimed in claim 36, in which said receiving means and said transmission means comprise a communication means for communicating in short distances for exchanging the device information with said data transmission device and said data receiving device, respectively.

38. A portable terminal as claimed in claim 37, in which said communication means for communicating in short distances

is a wireless communication means.

39. A portable terminal as claimed in claim 38, in which said communication means for communicating in short distances is based on either Bluetooth®, IEEE 802.11, HomeRF®, or IrDA®.

40. A portable terminal as claimed in claim 38, further comprising a deleting means for deleting the device information stored in said storage means if a distance between said portable terminal and said data receiving device exceeds a range communicable by said wireless communication means.

41. A portable terminal as claimed in claim 37, in which said communication means for communicating in short distances is a wired communication means.

42. A portable terminal as claimed in claim 36, in which said portable terminal is a mobile telephone.

43. A portable terminal as claimed in claim 36, in which said portable terminal is a memory medium.

44. A portable terminal as claimed in claim 36, in which said connection information contains an identification code for identifying said data transmission device on said network.

45. A portable terminal as claimed in claim 44, in which said identification code is an IP address.

46. A data transmission device to be used in a system including said data transmission device and a data receiving device which are connected to a network, and at least one



portable terminal, said data transmission device comprising:

a first transmission means for transmitting to said portable terminal a signal for obtaining device information containing connection information for establishing a connection between said data transmission device and said data receiving device from said data receiving device;

a receiving means for receiving the device information from said portable terminal; and

a second transmission means for transmitting a signal for requesting a connection to said data receiving device based on the device information.

47. A data transmission device as claimed in claim 46, further comprising a third transmission means for transmitting data to said data receiving device via said network after establishing a connection with said data receiving device.

48. A data transmission device as claimed in claim 46, in which said first transmission means and said receiving means transmit and receive data with said portable terminal via a mobile telecommunication network.

49. A data transmission device as claimed in claim 46, in which said connection information contains an identification code for identifying said data receiving device on said network.

50. A data transmission device as claimed in claim 49, in which said identification code is an IP address.

51. A data receiving device to be used in a system including a data transmission device and said data receiving device which are connected to a network, and at least one portable terminal, said data receiving device comprising:

a transmission means for transmitting to said portable terminal device information containing connection information for establishing a connection between said data transmission device and said data receiving device according to a request signal from said portable terminal; and

a connection means for establishing a connection with said data transmission device according to a signal for requesting the connection transmitted from said data transmission device based on the device information.

52. A data receiving device as claimed in claim 51, in which said transmission means comprises a communication means for communicating in short distances for transmitting the device information to said portable terminal.

53. A data receiving device as claimed in claim 52, in which said communication means for communicating in short distances is a wireless communication means.

54. A data receiving device as claimed in claim 53, in which said communication means for communicating in short

distances is based on either Bluetooth®, IEEE 802.11, HomeRF®, or IrDA®.

55. A data receiving device as claimed in claim 52, in which said communication means for communicating in short distances is a wired communication means.

56. A data receiving device as claimed in claim 51, in which said connection information contains an identification code for identifying said data receiving device on said network.

57. A data receiving device as claimed in claim 56, in which said identification code is an IP address.

58. A portable terminal to be used in a system including a data transmission device and a data receiving device which are connected to a network, and said portable terminal, said portable terminal comprising:

a first transmission means for transmitting to said data receiving device a signal for requesting transmission of device information containing connection information for establishing a connection between said data transmission device and said data receiving device according to a request from said data transmission device;

a receiving means for receiving the device information from said data receiving device; and

a second transmission means for transmitting the device

information received from said data receiving device to said data transmission device.

59. A portable terminal as claimed in claim 58, in which said first transmission means and said receiving means comprise a communication means for communicating in short distances for transmitting and receiving data with said data receiving device.

60. A portable terminal as claimed in claim 59, in which said communication means for communicating in short distances is a wireless communication means.

61. A portable terminal as claimed in claim 60, in which said communication means for communicating in short distances is based on either Bluetooth®, IEEE 802.11, HomeRF®, or IrDA®.

62. A portable terminal as claimed in claim 59, in which said communication means for communicating in short distances is a wired communication means.

63. A portable terminal as claimed in claim 58, in which said second transmission means transmits the device information to said data transmission device via a mobile telecommunication network.

64. A portable terminal as claimed in claim 58, in which said connection information contains an identification code for identifying said data receiving device on said network.

65. A portable terminal as claimed in claim 64, in which

said identification code is an IP address.

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